QC ABSTRACT

NAME OF WORK: Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 12-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	10-12-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
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Authorized Signatory
Technical Manager

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 12-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	10-12-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 12-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	10-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	12.5%	

* The results obtained are satisfactory as per standard requirements.

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 19-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	17-12-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	402	402	3.7	96.3	95-100
22.4	2189	2591	23.6	76.4	60-80
11.2	2056	4647	42.2	57.8	40-60
4.75	2165	6812	61.9	38.1	25-40
2.36	1535	8347	75.9	24.1	15-30
0.6	589	8936	81.2	18.8	8-22
0.075	1596	10532	95.7	4.3	0-5

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

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End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 19-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	17-12-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.5	299.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.9	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	226.2	225.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	24.3	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.5	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 19-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	17-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	25.5%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 22-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	20-12-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	425	425	3.9	96.1	95-100
22.4	2245	2670	24.3	75.7	60-80
11.2	1985	4655	42.3	57.7	40-60
4.75	2014	6669	60.6	39.4	25-40
2.36	1344	8013	72.8	27.2	15-30
0.6	1298	9311	84.6	15.4	8-22
0.075	1365	10676	97.1	2.9	0-5

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 22-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	20-12-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.1	298.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.1	73.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	227.5	224.0
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	23.5	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.1	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 22-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	20-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	9.8%	
Combined Flakiness and Elongation Index for WMM	21.9%	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	23-12-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**58**	Min 45mm
2	Softening Point, °C	**51.4**	Min. 47°C
3	Ductility, cm	**100**	Min. 40cm
4	Flash point, °C	**310**	Min. 220°C
	Fire point, °C	**322**	

* The results obtained are satisfactory as per standard requirements.

Note:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Technical Manager

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-22
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	23-12-22
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	23-12-22

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-12-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-12-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 28-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	27-12-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	27-12-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.60	5.40
7	Average percentage	%	5.5	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Lab ID : **CP-RW-2023-06-09-06** **Date: 28-12-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	3	3	0.6	99.4	90-100
9.5	59	62	13.1	86.9	70-88
4.75	120	182	38.4	61.6	53-71
2.36	85	267	56.3	43.7	42-58
1.18	31	298	62.9	37.1	34-48
0.6	12	310	65.4	34.6	26-38
0.3	55	365	77.0	23.0	18-28
0.15	39	404	85.2	14.8	12-20
0.075	26	430	90.7	9.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	59	64	13.5	86.5	70-88
4.75	123	187	39.4	60.6	53-71
2.36	79	266	56.0	44.0	42-58
1.18	35	301	63.4	36.6	34-48
0.6	14	315	66.3	33.7	26-38
0.3	59	374	78.7	21.3	18-28
0.15	25	399	84.0	16.0	12-20
0.075	32	431	90.7	9.3	4-10

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 04-01-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	03-01-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	03-01-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.60	5.50
7	Average percentage	%	5.6	

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Lab ID : **CP-RW-2023-06-09-06** **Date: 04-01-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	56	63	13.3	86.7	70-88
4.75	122	185	39.0	61.0	53-71
2.36	79	264	55.7	44.3	42-58
1.18	32	296	62.4	37.6	34-48
0.6	15	311	65.6	34.4	26-38
0.3	42	353	74.5	25.5	18-28
0.15	52	405	85.4	14.6	12-20
0.075	25	430	90.7	9.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	55	61	12.9	87.1	70-88
4.75	119	180	37.9	62.1	53-71
2.36	57	237	49.9	50.1	42-58
1.18	32	269	56.7	43.3	34-48
0.6	32	301	63.4	36.6	26-38
0.3	52	353	74.4	25.6	18-28
0.15	54	407	85.8	14.2	12-20
0.075	22	429	90.4	9.6	4-10

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-06-09-06**	**Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)	
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097	
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	05-01-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	05-01-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.40	5.40
7	Average percentage	%	5.4	

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Lab ID : **CP-RW-2023-06-09-06** **Date: 06-01-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	1	1	0.2	99.8	90-100
9.5	65	66	13.9	86.1	70-88
4.75	102	168	35.4	64.6	53-71
2.36	82	250	52.6	47.4	42-58
1.18	41	291	61.3	38.7	34-48
0.6	22	313	65.9	34.1	26-38
0.3	49	362	76.2	23.8	18-28
0.15	25	387	81.5	18.5	12-20
0.075	45	432	90.9	9.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
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Samples will be disposed after 30 days from the date of issue of test certificate.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 28-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-22
Type of Mix	:	Tack coat
Date of Test	:	27-12-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.801	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.021	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.233	0.256
7	Average	Kg/sq.m	0.244	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 04-01-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-22
Type of Mix	:	Tack coat
Date of Test	:	03-01-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.801	0.768
5	Weight of tack Coat (d=c-b)	Kg	0.021	0.02
6	Rate of spread of tack coat	Kg/sq.m	0.233	0.222
7	Average	Kg/sq.m	0.228	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-06-09-06** **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot hole filling Roads in Ward No.06, Surrounding area Byatarayanapura Sub division.(Additional)
Agency	:	M/s I S Infrastructures, Prop.Sri.N.K Shankar 5th Cross, No:07,3rd Floor, 2nd Main, Chamundeshwari layout, Vidyaranyapura Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/45/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	05-01-23
Type of Mix	:	Tack coat
Date of Test	:	05-01-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.77
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.022
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.244
7	Average	Kg/sq.m	0.244	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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